

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number  
**WO 2005/040355 A2**

(51) International Patent Classification<sup>7</sup>: C12N  
(21) International Application Number:  
PCT/US2004/035469  
(22) International Filing Date: 22 October 2004 (22.10.2004)  
(25) Filing Language: English  
(26) Publication Language: English  
(30) Priority Data:  
60/514,377 24 October 2003 (24.10.2003) US

(71) Applicant (for all designated States except US): EX-  
ELIXIS, INC. [US/US]; 170 Harbor Way, P.O. Box 511,  
South San Francisco, CA 94083-0511 (US).

(71) Applicants and

(72) Inventors: XU, Wei [US/US]; 327 Glasgow Circle,  
Danville, CA 94526 (US). ZHENG, Wentao [US/US];  
1144 Polynesia Drive, Foster City, CA 94404 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BALY, Deborah,  
Lynn [US/US]; 3410 Silver Springs Court, Lafayette,  
CA 94549 (US). GALAN, Adam, Antoni [US/US]; 865  
Cedar Street, Alameda, CA 94501 (US). IBRAHIM,  
Mohamed, Abdulkader [US/US]; 3380 Lubich Drive,  
Mountain View, CA 94040 (US). JAEGER, Christopher  
[US/US]; 115 Santa Clara Street, Brisbane, CA 94005  
(US). KEARNEY, Patrick [US/US]; 195 Bocana Street,  
San Francisco, CA 94110 (US). LEAHY, James, William  
[US/US]; 1185 Camellia Court, San Leandro, CA 94577  
(US). LEWIS, Gary, Lee [US/US]; 412 Noe Street, #5,  
San Francisco, CA 94114 (US). MCMILLAN, Kirk  
[US/US]; 14 Arundel, Burlingame, CA 94010 (US).  
NOGUCHI, Robin, Tammie [US/US]; 5213 Shelter

Creek Lane, San Bruno, CA 94066 (US). NUSS, John, M.  
[US/US]; 16 Woodranch Circle, Danville, CA 94056 (US).  
PARKS, Jason, Jevious [US/US]; 5 Bethesda Court,  
Sacramento, CA 95835 (US). SCHNEPP, Kevin, Luke  
[US/US]; 8768 Newry Court, Elk Grove, CA 95624 (US).  
SHI, Xian [CN/US]; 1125 Shelter Creek Lane, San Bruno,  
CA 94066 (US). WILLIAMS, Matthew, Alan [US/US];  
906 7th Avenue, San Mateo, CA 94402 (US).

(74) Agents: ATKINS, Michael, J. et al.; 170 Harbor Way, P.O.  
Box 511, South San Francisco, CA 94083-0511 (US).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished  
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: TAO KINASE MODULATORS AND METHODS OF USE

(57) Abstract: The invention provides compounds and methods for inhibition of kinases, such as those of the TAO family, more specifically KIAA1361, TAO, and JIK kinases. The invention provides compounds for modulating protein kinase enzymatic activity for modulating cellular activities such as proliferation, differentiation, programmed cell death, migration and chemoinvasion. Compounds of the invention inhibit, regulate and/or modulate kinase receptor signal transduction pathways related to the changes in cellular activities as mentioned above, and the invention includes compositions which contain these compounds, and methods of using them to treat kinase-dependent diseases and conditions.

WO 2005/040355 A2